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Andre BREV 13186 7186 EXAMINER
EXAMINER
DICUS, TAMRA
ART UNIT PAPER NUMBER
1774

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	09/830,380	ANDRE ET AL.	
	Examiner	Art Unit	
	Tamra L. Dicus	1774	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>06-18</u>	3-04.		
	action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) Claim(s) 14-23 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 14-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	n from consideration.		
Application Papers			
9) The specification is objected to by the Examiner	•.		
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.			
Applicant may not request that any objection to the o			
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.		, ,	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ite atent Application (PTO-152)	

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DETAILED ACTION

Cancellation of claims 1-10 are acknowledged. The prior Office Action is withdrawn due to Applicant's submission of the translation of the French patent overcoming the date of the Ramdani reference.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 14-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0486 475 A2 to Ando et al.

Ando teaches an amorphous oxide film composed essentially of an oxide of Hf (amorphous hafnium oxide) and one oxide of Si (silicon oxide). The amorphous oxide film is in a multilayer structure of at least three layers comprised of the amorphous oxide types, thereby producing a stack, alternate layers, and where the other layer comprises silicon oxide. See abstract, page 10, lines 1-30, and Figures 2-8. While Ando does not teach the density requirement of less than 8 g/cm³, the film is made by sputtering techniques which are known to vary density. Absent of the showing of the criticality for the density it would have been obvious within the level of ordinary skill in the art to produce a density less than 8 g/cm³ for the Ando reference because the film is produce via sputtering techniques which is known to vary the density.

Response to Arguments

3. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection. While Ando was used prior, Ando still provides for a similar amorphous hafnium oxide film. Although Ando does not teach the density requirement, Applicant has not provided any evidence to the contrary that the Ando reference does not read on the instant claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamra L. Dicus whose telephone number is 571-272-1519. The examiner can normally be reached on Monday-Friday, 7:00-4:30 p.m., alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tamra L. Dicus

Examiner

Art Unit 1774

September 1, 2004

B. HAMILTON HESS PRIMARY EXAMINER